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6a. NAME OF PERFORMING ORGANIZATION Packaging Division, AED	6b. OFFICE SYMBOL (If applicable) SMCAR-AEP	7a. NAME OF MONITORING ORGANIZATION		
6c. ADDRESS (City, State, and ZIP Code) U.S. Army, ARDEC Picatinny Arsenal, NJ 07806-5000		7b. ADDRESS (City, State, and ZIP Code)		
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11. TITLE (Include Security Classification) Performance Oriented Packaging Report for Charge, Demolition: Block M118				
12. PERSONAL AUTHOR(S) Sniezek, Frank				
13a. TYPE OF REPORT Final	13b. TIME COVERED FROM _____ TO _____	14. DATE OF REPORT (Year, Month, Day) 91-08-06	15. PAGE COUNT 3	
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17. COSATI CODES		18. SUBJECT TERMS (Continue on reverse if necessary and identify by block number)		
FIELD	GROUP	SUB-GROUP		
		Performance Oriented Packaging, POP, Charge, Demolition: Block M118, Mil-B-46506, Wirebound Box		
19. ABSTRACT (Continue on reverse if necessary and identify by block number)				
<p>This POP report is for the Charge, Demolition: Block M118, which is packaged 20 charges/Mil-B-46506 wirebound box. This report describes the results of testing conducted on a similar packaging which is used as an analogy for this item.</p>				
20. DISTRIBUTION / AVAILABILITY OF ABSTRACT <input type="checkbox"/> UNCLASSIFIED/UNLIMITED <input type="checkbox"/> SAME AS RPT <input type="checkbox"/> DTIC USERS		21. ABSTRACT SECURITY CLASSIFICATION Unclassified		
22a. NAME OF RESPONSIBLE INDIVIDUAL Steve Ruffini		22b. TELEPHONE (Include Area Code) 201-724-2515		22c. OFFICE SYMBOL SMCAR-AEP

91-09041



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II. TITLE: Performance Oriented Packaging Report for Charge,
Demolition: Block M118

PERFORMING ACTIVITY: ARDEC

DATE: 6 Aug 91

Approved for public release; distribution is unlimited



Approved For _____
Date: 08-01-01
BY: [Signature]
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Declassify on:
Authority: [Signature]
Excluded

A-1

1. DATA SHEET

CONTAINER

Type: Box

UN Code: 4C1

Nomenclature: Box, Wirebound, Packing, Ammunition, for Charge,
Demolition, M118

Specification: Type II, Class 1, Grade A, Mil-B-46506

Drawing Number: 8876128

Material: Wood and Wire

Gross Weight: 52.5 pounds

Outside Dimensions: 17 11/16 in x 13 7/16 in x 8 1/32 in

Inside Dimensions: 15 5/16 in x 12 1/2 in x 6 3/8 in

PRODUCT

Name: Charge, Demolition, M118

Drawing Number: 9204247

United Nations Number: 0048

United Nations Packing Group: II

Physical State: Solid

Amount per Container: 20

2. BACKGROUND, TESTS, AND RESULTS

Reference the following documents:

- a. United Nations Transport of Dangerous Goods, Sixth Edition
- b. Federal Register dated December 21, 1990
- c. Federal Register Notice dated February 21, 1991

Instead of testing the specific container used for the M118 Demolition Charge, wirebound boxes built to the same specification, but with the following weight and dimensions were tested.

Gross Weight: 65 lb.

Inside Dimensions: 15 5/16 in x 12 1/2 in x 7 1/4 in

This falls within the guidelines for analogy IAW Variation III of Reference 2c.

A Stacking Test was conducted on 3 containers with a weight of 2500 pounds for 24 hours. This weight exceeds the minimum requirement of a weight equivalent to a 10 foot stack height which is 939 pounds.

A Loose Cargo Test was conducted IAW with the Federal Register on the same 3 containers. The packages were tested at a vibration table frequency such that the bottom of the packages was raised 1/4 inch from the platform, which exceeds the requirement of 1/16 inch.

A Four Foot Drop Test was conducted on one of the containers that was subjected to the Loose Cargo Test. One container was dropped five times at different orientations as follows: top, bottom, long side, short side, and a top corner at the closure. This exceeds the requirement of one drop per container.

Test results indicate that there was no leakage or spillage of the containers following any of the tests conducted, and as such, meets the requirements of the Federal Register and the United Nations Transport of Dangerous Goods.